

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Asawa et al.  
Serial No.: 10/034,982  
Filed: December 28, 2001  
For: TWO-LAYER IMAGEABLE ELEMENT COMPRISING  
THERMALLY REVERSIBLE POLYMERS  
Art Unit: 1752  
Examiner: Not yet assigned  
Attorney Docket: 1217.003USQ



Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with applicant's duty of disclosure under 37 C.F.R. §1.56, please find attached hereto form PTO-1449 listing information which may be material to the patentability of this application, filed December 28, 2001. This Information Disclosure Statement is being filed:

XXX Within three (3) months of the filing date of the national application;

\_\_\_\_\_ Within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;

\_\_\_\_\_ Before the mailing date of a first Office Action on the merits;

\_\_\_\_\_ After the filing date or date of first Office Action, but before the mailing date of a final action under 37 C.F.R. §1.113, provided that this occurs prior to the issuance of a Notice of Allowance and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e) or the fee set forth in 37 C.F.R. §1.17(p);

\_\_\_\_\_ After the filing date or date of first Office Action, but before the mailing date of a Notice of Allowance under 37 C.F.R. §1.311, provided that this occurs prior to the final action and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e) or the fee set forth in 37 C.F.R. §1.17(p);

\_\_\_\_\_ After the mailing date of a final action under 37 C.F.R. §1.113, provided that this occurs prior to the issuance of a Notice of Allowance and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e), a petition requesting consideration of the I.D.S., and the petition fee set forth in 37 C.F.R. §1.17(i)(1); and

After the mailing date of a Notice of Allowance under 37 C.F.R. §1.311, provided that this occurs prior to the issuance of a final action and provided that this I.D.S. is accompanied by either a certification as specified in 37 C.F.R. §1.97(e), a petition requesting consideration of the I.D.S., and the petition fee set forth in 37 C.F.R. §1.17(l)(1).

Also enclosed are copies of the following patents: JP2000-330265; US Patent No. 6,143,464; EP 0 908 305 A1 and EP 0 909 657 A2.

The following references were either (1) cited by or (2) submitted to the Patent and Trademark Office in priority application Serial No. 09/751,650 , filed December 29, 2000 .

Accordingly, copies of the following references have not been submitted herewith. (37 C.F.R. §1.98(d)). US 006320018B; US 6,303,740B1; US 6,291,586 B2; US 6,288,221 B1; US 006172128B; US 0060532A; US 006083662A; US 006013738A; US 005994431A; US 5807977A; EP 433188A1; WO 98/14504; WO 98/42507; WO 98/54621; WO 99/01795; "Supramolecular Polymer Materials: Chain Extension of Telchelic Polymers Using a Reactive Hydrogen-Bonding Synthon," Folmer et al., Advanced Materials 2000, 12, No. 12.; "Hydrogen-Bonded Supramolecular Polymers Network," Lange et al., Journal of Polymer Science, Part A: Polymer Chemistry, vol. 27, p. 3657; "Reversible Polymers Formed from Self-Complementary Monomers Using Quadruple Hydrogen Bonding," Sijbesma et al., Science, Vol. 276, November 28, 1997, p. 1601-1604.; "Use of Hydrogen Bonds to Control Molecular Aggregation. Extensive, Self-Complementary Arrays of Donors and Acceptors," Ducharme et al., Journal of Organic Chemistry, 1988, Vol. 53, No. 24, pp. 5787-5789.; "Supramolecular Polymer Interactions Based on the Alternating Copolymer of Styrene and Maleimide," Lange et al., Macromolecules, 1995, Vol. 28, pp. 782-783.

It should be understood that attention has been called to the references that have been deemed to be pertinent to the claimed present invention. In concluding what was pertinent, the criteria employed was considered most appropriate in light of the invention shown in the present application. However, the Examiner or others may deem some other criteria to be just as appropriate or more appropriate. Therefore, the Examiner is respectfully urged to review the

listed references and to make the usual careful independent search for other prior art that may be pertinent.

Respectfully submitted,

*V. Alexanian*

March 12, 2002  
Date

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<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	Docket Number (Optional)	Application Number
	1217.003USQ	10/034,982
	Applicant	
	Asawa et al.	
	Filing Date	Group Art Unit
	December 28, 2001	1752

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	006320018B	11/01	Sijbesma et al.			
	6,303,740 B1	10/01	Singh			
	6,291,586 B2	09/01	Lasch et al.			
	6,288,221 B1	11/01	Grinstaff et al.			
	006172128B	01/01	Lau et al.			
	006090532A	7/00	West et al.			
	006083662 A	07/00	Miller et al.			
	006013738 A	01/00	Daley et al.			
	005994431 A	11/99	Olson et al.			
	5,807,977 A	09/98	Malik et al.			
	6,143,464	11/00	Kawauchi			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 433188A1	6/91	Europe				
	WO 98/14504	4/98	PCT				
	WO 98/42507	10/98	PCT				
	WO 98/54621	12/98	PCT				
	WO 99/01795	1/99	PCT				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	"Supramolecular Polymer Materials: Chain Extension of Telechelic Polymers Using a Reactive Hydrogen-Bonding Synthon," Folmer et al., Advanced Materials 2000, 12, No. 12.
	"Hydrogen-Bonded Supramolecular Polymers Network," Lange et al., Journal of Polymer Science, Part A: Polymer Chemistry, vol. 27, p. 3657.
	"Reversible Polymers Formed from Self-Complementary Monomers Using Quadruple Hydrogen Bonding," Sijbesma et al., Science, Vol. 276, November 28, 1997, p. 1601-1604.

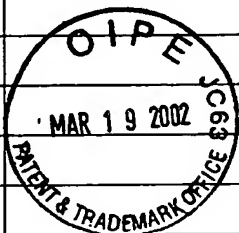
EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 0 909 657 A2	4/99	Europe				
	EP 0 908 305 A1	4/99	Europe				
	2000-330265	11/00	Japan				x

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	"Use of Hydrogen Bonds To Control Molecular Aggregation. Extensive, Self-Complementary Arrays of Donors and Acceptors," Ducharme et al., Journal of Organic Chemistry, 1988, Vol. 53, No. 24, pp. 5787-5789.
	"Supramolecular Polymer Interactions Based on the Alternating Copolymer of Styrene and Maleimide," Lange et al., Macromolecules, 1995, Vol. 28, pp. 782-783.

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